

Semester	4		
Course Code	ENCM 22791		
Course Name	Scientific Communication		
Credit Value	1		
Status	Compulsory		
Pre-requisite	None		
Co-requisite	None		
Hourly breakdown	Theory	Practical	Independent Learning
	12	9	29

Intended Learning Outcomes:

After completion of this course unit, the student will be able to:

1. explain the goals of scientific communication,
2. demonstrate skills in locating scientific literature
3. demonstrate competencies in scientific document writing (literature review, project proposal, project report, etc.) including style, sentence construction, citing and listing references using an appropriate reference generator, avoiding plagiarism
4. demonstrate skills in conducting surveys and case studies, and
5. communicate scientific information using professional written and verbal formats.

Course Content:

Scientific communication; introduction and goals. Identification of environmental issues in formulating a case study, postulating hypotheses, and setting objectives. Locating scientific literature (PubMed, ScienceDirect, Scopus and Researchgate, ~~Mendeley with e-library~~) and writing a literature review. Reference styles and reference generator (Mendeley with e-library, Word plugin, Plagiarism. Writing a project proposal. Surveys and case studies in pure and applied sciences. Factors to be considered at the planning stage of a case study. Questionnaire design: open ended questions, structured and semi structured questions, scale questions, and Focus group interviews. Writing a group project report. Writing an abstract, poster preparation. An effective oral presentation.

Practical sessions on literature search and reference generation, Design a questionnaire for a given case, writing an abstract, and effective presentation.

Teaching/ Learning Methods:

A combination of lectures, computer aided practical sessions, assignments

Assessment Strategy:

Continuous assessment and end of semester examination. Percentage given for each sub-component indicates the percent contribution to the final marks.

Continuous Assessment 60 %		Final Assessment 40 %		
Details:		Theory	Practical	Other
Assignments	50		-	40
Quizzes	10			Report

Recommended Readings:

1. Matthews JR, Matthews RW (2014) Successful Scientific Writing. A Step-By-Step Guide for the Biological and Medical Sciences. 4th ed. Cambridge University Press
SBN-13: 978-1107691933 ISBN-10: 1107691931.
2. Morgan SE, Reichert T, & Harrison, TR, (2001) From Numbers to Words: Reporting Statistical Results for the Social Sciences. Pearson ISBN-10: 080133280X | ISBN-13: 978-0801332807.